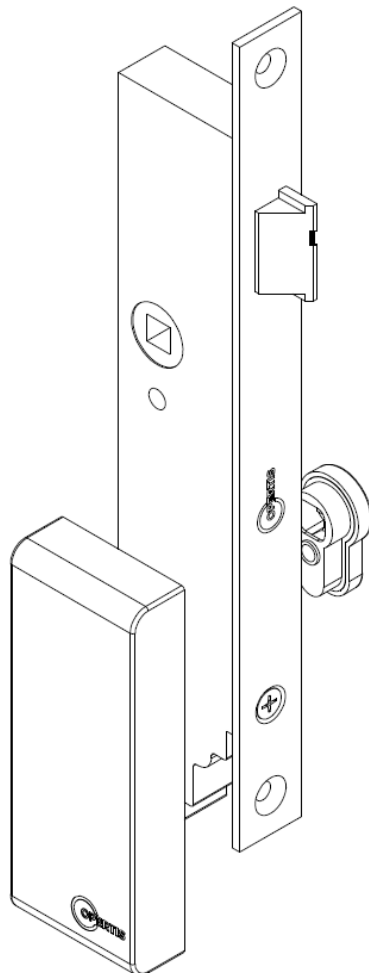


## Operating instructions

APS Comfort system for framed doors  
ES7670, ES6670, ES7671, ES6671  
ES7672, ES6672, ES7673, ES6673





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# 1 Introduction

## About these instructions

This manual contains important information for operating the APS Comfort System for Framed Doors ES7670, ES6670, ES7671, ES6671, ES7672, ES6672, ES7673 and ES6673.

- Read the manual thoroughly and carefully.
- Store the manual and pass on to each next user of the APS Comfort System for Framed Doors.

## Explanation of the symbols and signal words used

 WARNING	Indicates hazards that can lead to death or serious injury.
 CAUTION	Indicates hazards that can lead to minor or moderate injury.
CAUTION	Indicates hazards that can lead property damage.
Note	Highlights hints and tips for optimum use of the manual and product.

## Target group

This manual is intended for specialist staff, who are responsible for the service, maintenance, disposal and continued fault-free operation of the APS Comfort System for Framed Doors, and can prove that they have the suitable training or relevant experience for these activities.

## OPERTIS Support

Should you have any questions, which are not covered in this manual, please contact:

OPERTIS GmbH  
Prof.-Bier-Straße 1-5  
D-34454 Bad Arolsen

Tel.: +49 5691 87741-200  
Fax: +49 5691 87741-281  
Email: support@opertis.de

**Up-to-date information**

All information on the product, images, dimensions and lists correspond to the status at the time of product delivery. We reserve the right to make changes as a result of technical progress, and the resulting improvement product processes.

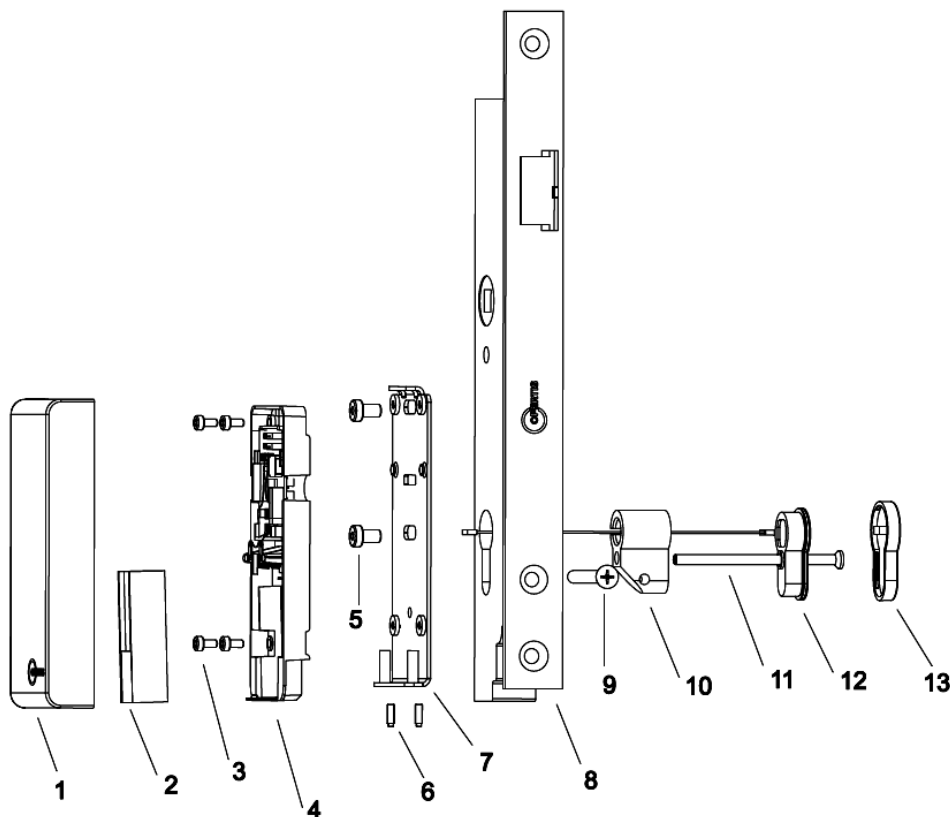
You can also find the current version of this manual and other information on our website - [www.opertis.de](http://www.opertis.de).

Status 09/2013

## 2 Product description

### Component parts

The following drawing shows the component parts of the APS Comfort System for Framed Doors:



1	Stainless steel cover
2	Battery
3	M3x6 screws
4	Housing with electronics
5	M5x8 screws
6	M3x9 threaded pins
7	Mounting plate
8	APS lock
9	Fixing screw M5x50
10	Profile cylinder adapter with antenna cable
11	M4 countersunk screw (door thickness dependent)
12	Profile cylinder housing
13	Plastic profile cylinder cover with antenna

## Functional principle

Self-locking motor panic lock with integrated electronics according to DIN 18251-2.

The OPERTIS locking system, eLOCK, ensures durchgängige Objektausstattung. Special fittings are available for different types of door.

The APS Comfort System for Framed Doors contains a self-locking lock, which automatically locks when the door is closed. Conventional locking with knobs or keys is no longer needed; nor is mechanical closing.

With the APS Comfort System for Framed Doors, the inside handle is always coupled. Through the integrated anti-panic function, the latch and release lever are retracted by pushing the inside handle; the door can always be opened again from the inside. The panic function cannot be switched off.

With the APS Comfort System for Framed Doors, the outside handle is non-functional when it is decoupled. It can be pushed, but it is not connected to the the lock latch or release lever. In this state, the door cannot be opened using the outside handle. Access is gained by brief coupling of the otherwise neutral outside handle after holding an authorised identifier in front of the antenna. Upon actuation of the coupled outside handle, the latch and release lever are retracted.

Conventional locking with knobs or keys is no longer needed; nor is mechanical closing.

Administration and programming, as well as the granting of access rights is done over the eLOCK Center administration software. Optional programming with eLOCK LernLöschen over three programming keys without additional software is possible.

To access the fittings, passive identifiers without their own power supply are available in different designs, such as key rings, cards or custom designs.

## Detailed information

You can find further information on the product in section 8 "Product specification".

## 3 Intended use

### Area of use

The APS Comfort System for Framed Doors matches the installation dimensions of a mortice lock in accordance with DIN 18251-2, and is designed for indoor use on narrow tubular framed doors. Use of external doors is permissible only if the electronics are installed in a protected internal area. Use on fire safety doors or outdoors, such as in fencing, is not permitted.

The lock meets the requirements for doors in escape and rescue routes according to DIN EN 179 and 1125. Used in approved and tested fittings.

### Condition of the product

The APS Comfort System for Framed Doors may only be used in a technically sound condition.

Unauthorised conversions or alterations of the product are not permitted.

### Ambient conditions

Use in particularly harsh environments, e.g. corrosive gases, high humidity, extreme temperatures or very dusty conditions, is not permitted. Please contact OPERTIS Support if you have any questions.

### Power supply

Enable all battery-powered fittings activate audible low battery warnings, and controlled failure closures when the battery power in the fitting is coming to an end. The battery must then be replaced immediately.

Repeated disregard for the low battery warning permanently decouples the APS Comfort System for Framed Doors from the handle (Active Power Off). The Active Power Off state is indicated by an acoustic warning (see operating manual, chapter 5 - Use and operation). This state is maintained until the battery is replaced or, if relevant, an external power source was connected to the outside of the door.

### Residual risk

This product supports the security of your property when used as intended, and in compliance with the maintenance instructions.

The following residual risks, however, cannot be ruled out.

- If the electromechanical components fail, there is the risk of being locked out.



- If the battery suddenly completely discharges, the APS Comfort System for Framed Doors will be non-functional. It will send no battery warning, and will not enter the Active Power Off state. It is then only possible to open the door from the outside with the external power supply ES6781 for ES5000 plus systems or ES7781 for eLOCK and eLOCK LernLösch systems.

## 4 Safety instructions

The safety notes are to be read prior to use! OPERTIS accepts no liability for any personal injury or property damage resulting from failure to follow this manual!



### **WARNING**

#### **Risk of personal injury from the batteries**

Improper handling of the batteries can be harmful to health. The following notes must be observed:

- Only use types of batteries, which are delivered or approved by OPERTIS.
- Do not open, solder or weld batteries.
- Do not throw batteries into fire.
- Do not recharge batteries.
- Immediately remove empty batteries from the fitting.
- Keep batteries out of the reach of children.
- Do not touch leaking batteries without appropriate protection. Avoid contact with eyes and mouth.



### **CAUTION**

#### **Risk of property damage**

Using non-approved types of battery can result in malfunction. In this case, the fitting would send no battery warning, and would not enter the secure final state of Active Power Off.

Only use types of batteries, which are approved by OPERTIS.

**CAUTION****Risk of being locked out**

The door cannot be opened without a functional fitting, if the latch is in the lock.

Leave the door open during installation and battery replacement, or ensure that the door can be opened at all times without using the fitting.

**CAUTION****Unauthorised access**

The inside handle of the APS Comfort System for Framed Doors is basically coupled as an anti-panic lock. This makes it possible to open the door at all times using the inside handle. Be especially aware of this when using the fitting on publicly accessible doors, and on doors with inside handles, which can be easily reached from the outside.

**CAUTION****Unauthorised access**

The APS Comfort System for Framed Doors is delivered with factory settings. Access is also possible with all non-programmed OPERTIS identifiers.

Programme the authorisations immediately following installation to prevent unauthorised access; see eLOCK system documentation software; meanwhile, check the time and reset if necessary.

## 5 Use and operation

### Programming fittings and identifiers

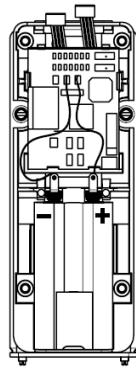
Fittings and identifiers are programmed over the eLOCK Center management software or the eLOCK LernLösch system. You can find detailed information about these in the eLOCK system documentation software.

### Change the battery

#### Note

Note the information on battery types in section “Technical data”.

Proceed as follows:

Step	Activity	Image
1	Screw in M3x9 screws on the mounting plate and remove the stainless steel cap.	
2	Remove battery.	
3	Insert the new batteries into the battery compartment, observing the correct polarity. See image	
4	Place the stainless steel cap on top of the mounting plate and hook in place.	
5	Attach the stainless steel cap below the mounting plate with two M3x9 threaded pins.	
6	Perform a closure operation by holding an authorised identifier. Check the date and time and reset if necessary; see eLOCK system documentation software.	

## Acoustic signals

The acoustic and visual signals of the APS Comfort system for Framed Doors depend on the programming. The programmed fittings in the AddDelete system and the fittings programmed using eLOCK Center have a different signalling concept.

### Note

The complete visual and acoustic signals are included in the eLOCK system documentation "Signalling Concept" section.

Acoustic signal	Meaning
1x ascending sound sequence.	Programming mode on.
1x descending sound sequence.	End of programming mode (automatic).
1x short high-pitch.	Fitting connection by authorised identifier.
1x long low-pitch.	No fitting connection, identifier not authorised.
1x long low + 5x sound sequence short high	Battery empty, warning level 1 with controlled failed locking
1x long low + 3x sound sequence short high	Active Power Off, battery completely discharged
1x short high-pitch.	Fitting connection in construction site mode or permanent release mode, see eLOCK system documentation "Fitting Modes" section.
1x long low-pitch + 4x short low-pitch	System error! Dismantle Comfort system, contact OPERTIS Support!

## 6 Servicing, cleaning and maintenance

Service, cleaning and maintenance may only be carried out by qualified staff.

Guarantee for damage resulting from improper handling is excluded.

### Intervals

Activity	Interval
Cleaning and maintenance	3 months.
Service	1 year

### Cleaning and maintenance

#### CAUTION

#### Property damage from improper cleaning

If cleaning is done incorrectly, the surfaces can become attacked and damaged:

- Only carry out maintenance on the APS Comfort System for Framed Doors from the outside (do not remove cover caps!).
- Do not use any cleaning agents, which contain alkaline, acid or chlorine.
- Do not use any cleaning agents, which contain abrasives.
- Do not use any abrasive tools, such as brushes.
- Do not allow oils and greases to enter the inside of the electro-mechanical lock.
- Do not allow cleaning agents to enter the inside of the lock casing.

Proceed as follows:

Step	Activity	Image
1	Wipe surfaces with a damp cloth.	
2	Lightly grease the raised latch bolt on the oblique side.	

## Servicing



### CAUTION

#### Risk of being locked out

The door cannot be opened without a functional fitting, if the latch is in the lock.

Run functional tests with door open.

The following functional tests are to be carried out at least once a year.

Step	Activity	Result
1	Check the secure seating of the lock, the mounted fittings and the screws.	All component parts of the APS Comfort System for Framed Doors are securely fixed. The latch and the release lever move smoothly.
2	Push the outside handle.	The outside handle is in neutral mode. The latch does not retract.
3	Hold authorised OPERTIS identifier in front of the reader, then push the outside handle.	The latch retracts and rises again after it is released.
4	Push the inside handle.	
5	Check self-locking: Push down the release lever.	The lock latch and release lever should pop out. The latches and the release lever can no longer be pushed down.
6	Check panic function: Push inside handle when the lock is locked.	The lock latch and release lever are retracted through actuation.
7	Check panic function: Push coupled outside handle when the lock is locked.	

Step	Activity	Result
8	<b>CAUTION</b> <b>Risk of being locked out</b> When closing the door from the outside, an authorised identifier must be available, in order to subsequently reopen the door.  Close door from the inside.	The lock latch should pop out.
9	Push the inside or coupled outside handle.	Lock latches and release levers are retracted, and the bolt must not rub against the strike plate.
10	Read the fitting information; see eLOCK system documentation software.	

## 7 Problems and solutions

Problem	Possible cause	Solution
APS Comfort System for Framed Doors does not open or close.	Identifier is not an OPERTIS identifier of the locking system.	Use OPERTIS identifier.
	Identifier is not programmed or does not have the required authorisation.	Program the identifier; see eLOCK system documentation software.
	Identifier is defective.	Replace identifier.
	Fitting has the wrong date or wrong time.	Reset the time; see eLOCK system documentation software.
	Battery is empty or defective.	Replace battery and single operation of the APS Comfort System for Framed Doors through an identifier.
		Provide external power supply on the outside of the APS Comfort System for Framed Doors. Then replace the battery and operate the APS Comfort System for Framed Doors at least once by means of an identifier.
	Antenna plug has become loose.	Fully plug in the antenna plug.
	Antenna is defective.	Replace antenna.
	Cables are crushed or pinched.	Replace APS Comfort System for Framed Doors
	Comfort System is contaminated by chips or lubricant.	Replace APS Comfort System for Framed Doors



Problem	Possible cause	Solution
Latch keys are not in the horizontals (APS Comfort System for Framed Doors works faulty).	Latch key set is oblique or mounted under pressure.	Mount latch key set correctly and check for free movement.
	Latch keys are too heavy.	Replace existing latch keys with lighter ones or use additional retaining springs.
Every identifier has locking authorisation.	Fitting is not programmed ("factory setting").	Program the fitting; see eLOCK system documentation software.
Latches do not engage.	Latch recess in the strike plate does not match the latch position of the APS Comfort System for Framed Doors.	Adapt the latch recess in the strike plate to the latch position of the APS Comfort System for Framed Doors.
	Door or door frame warped.	Adjust door, door frame or the tapes.
The lock does not lock.	The self-locking is defective.	Replace immediately.
The bolt does not retract when the inside handle or coupled outside handle is pushed.	The panic function is defective.	Replace immediately. <b>The door may no longer be closed, as the panic function is no longer available!</b>
The APS Comfort System for Framed Doors is permanently coupled. The door can be opened without authorisation of an identifier.	The fitting's switch mode is enabled; see eLOCK system documentation, section "Fitting modes".	Disable switch mode. <ul style="list-style-type: none"> <li>○ Reconfigure fitting time profile.</li> <li>○ Authorisation with switch IT to disable the switch mode.</li> </ul>

## 8 Product specifications

### Declaration of conformity

OPERTIS GmbH hereby declares that the APS Comfort System for Framed Doors complies with the fundamental requirements and other relevant provisions of the directives 1999/5/EG and 2011/65/EU, and are CE-compliant.

A copy of the declaration of conformity can be obtained from OPERTIS support.

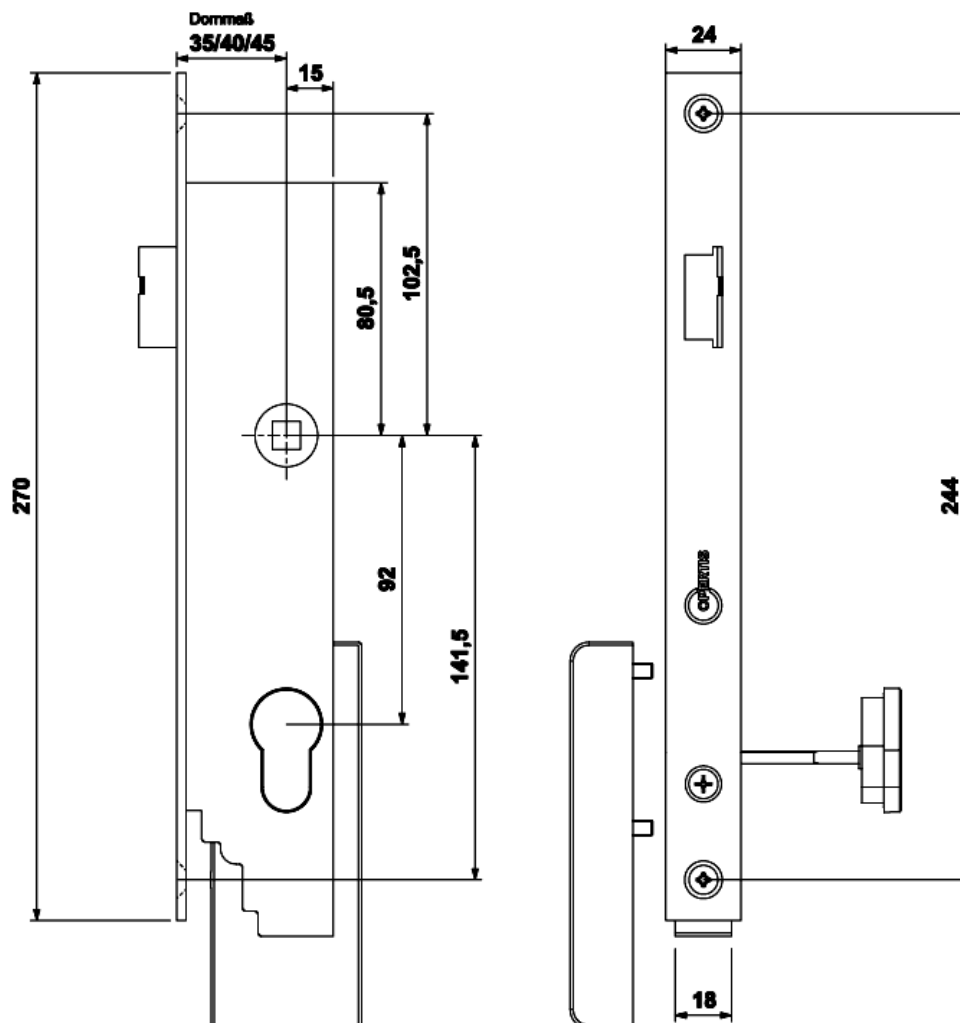
Installation in profile cylinder mortice locks according to DIN 18251: Locks - Mortice locks - Part 2: Mortice locks for tubular framed doors.

The lock has the building inspection test certificate from MPA Dortmund. It is labelled accordingly.

### Dimensions

All dimensions in mm

#### ES7670 or ES6670



## Technical data

### Surface

Lock plate	Stainless steel
Profile cylinder cover	Polyamide surface
Cover cap	Stainless steel

### Power supply

Supply voltage	3-volt lithium battery CR-3V OPERTIS item no.: ES0893
Battery life:	Depending of conditions of use and type of fitting:
<ul style="list-style-type: none"> <li>○ Operational readiness: (at approx. 10 closures per day)</li> <li>○ Closures (total)</li> <li>○ Standby time</li> </ul>	<ul style="list-style-type: none"> <li>○ up to 3 years</li> <li>○ up to 100,000 closures</li> <li>○ up to 5 years</li> </ul>

### Specific details

Operating temperature	0°C to +45°C		
Storage temperature	-20 °C to +60 °C		
Air humidity for operation and storage	max. 95% non-condensing		
Protection class according EN 60529	IP 21		
Lock strength according to DIN 18251 class 4	Increased burglar resistance and high user frequency		
VdS (Association of German Property Insurance Companies) inspection	The lock has been tested and approved by the VdS.		
Memory capacity in the fitting:	ES6xxx	ES7xxx	ES7xxx LernLöschen
Identifiers	60.000	80.000	100
Protection zones (belonging to a group of fittings)	296	30	-
Event memory (authorisation attempts)	512	628	-

## 9 Disposal

### Product



Disposal in accordance with WEEE Directive 2012/19/EU:

- Do not dispose of the product with the local household waste.
- Return the product to OPERTIS or dispose at a municipal collection point for electrical hazardous waste.

### Batteries



- Do not dispose of batteries with the local household waste, but at a public battery collection point.
- Do not throw batteries into fire.
- Do not store used batteries together.
- Dispose of the batteries only when they are completely discharged.

### Product packaging

Dispose of the product packaging with the local household and paper waste.

### Notes:









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